FIG. 1A

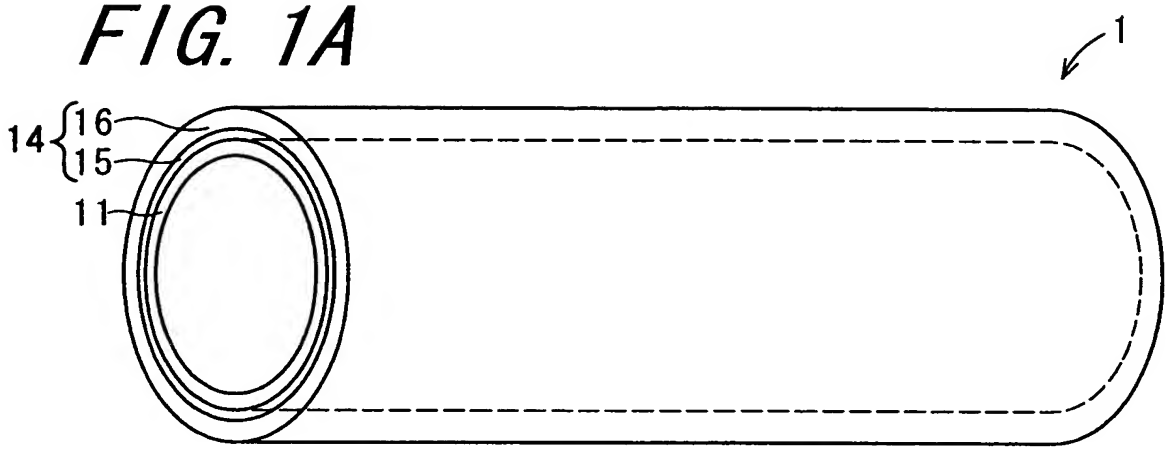


FIG. 1B

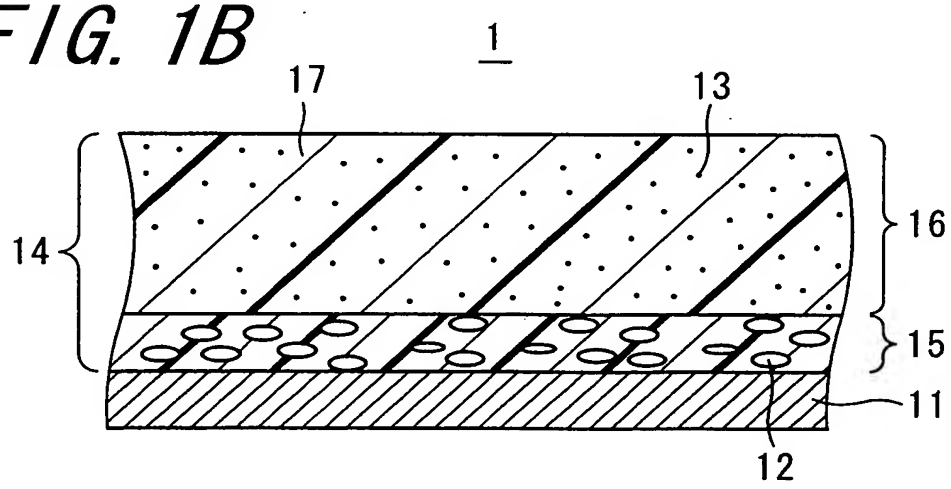


FIG. 2

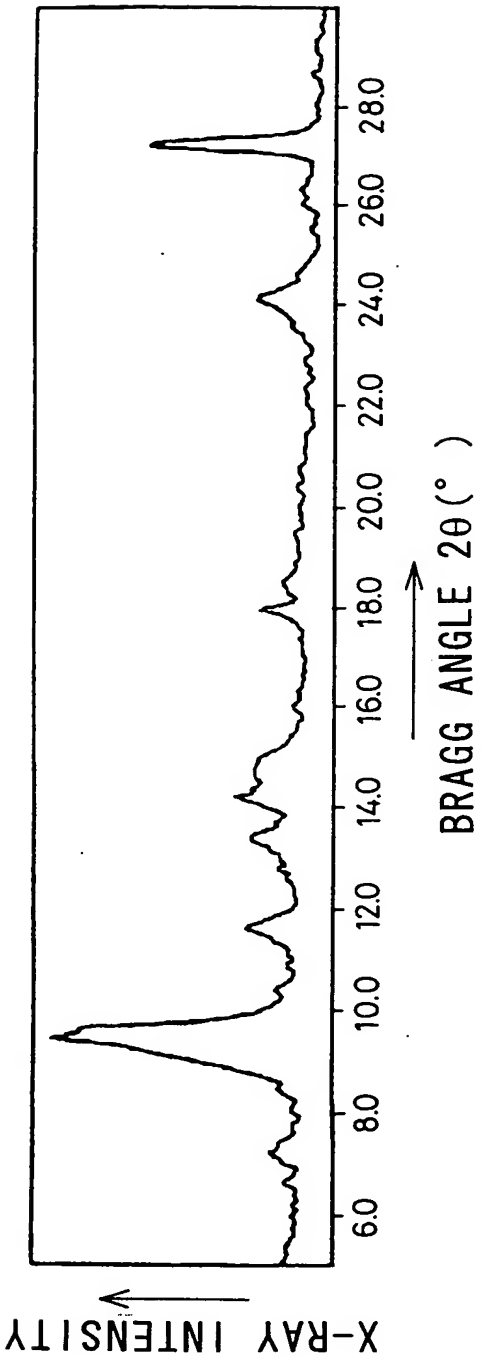

6.0
8.0
10.0
12.0
14.0
16.0
18.0
20.0
22.0
24.0
26.0
28.0
BRAGG ANGLE 2θ(°)
X-RAY INTENSITY

FIG.3

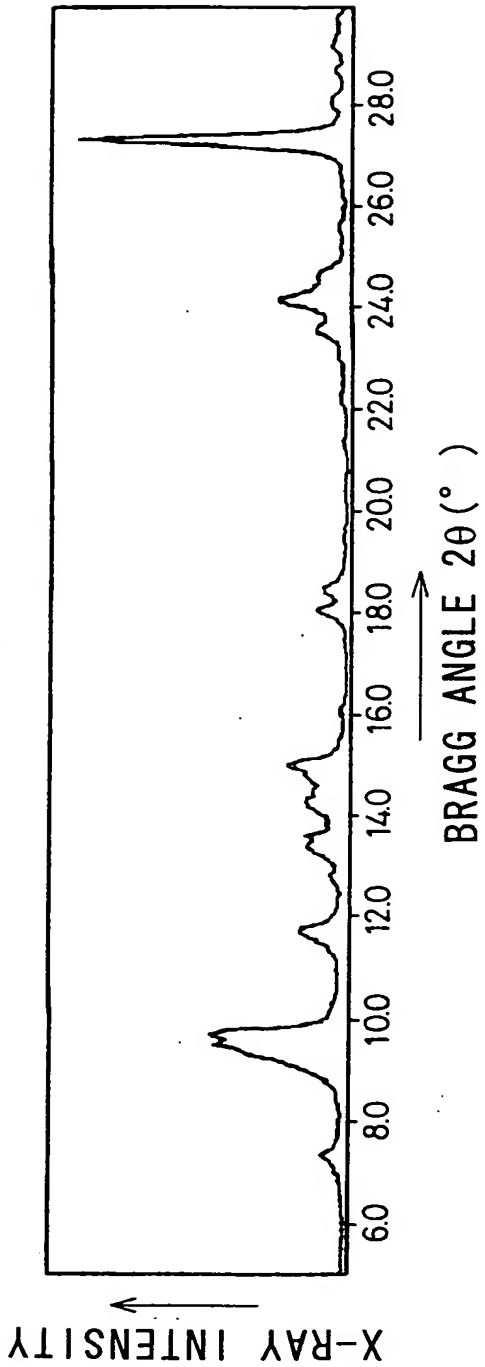

6.0
8.0
10.0
12.0
14.0
16.0
18.0
20.0
22.0
24.0
26.0
28.0
BRAGG ANGLE 2θ(°)
X-RAY INTENSITY

FIG. 4

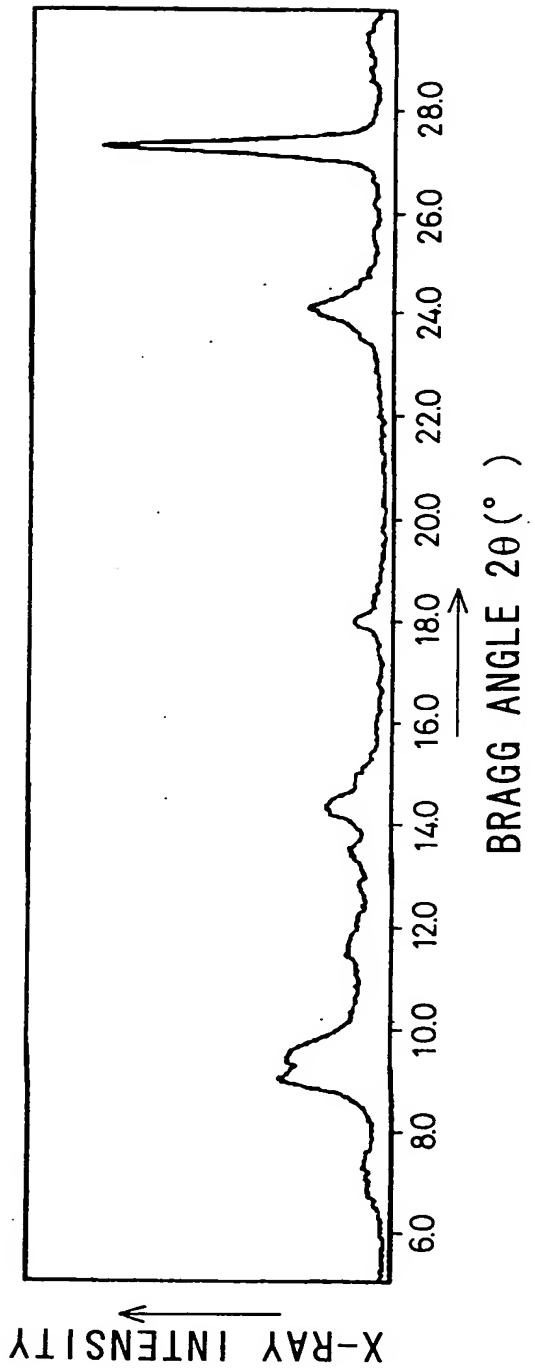

6.0
8.0
10.0
12.0
14.0
16.0
18.0
20.0
22.0
24.0
26.0
28.0
BRAGG ANGLE 2θ (°)
X-RAY INTENSITY

FIG. 5

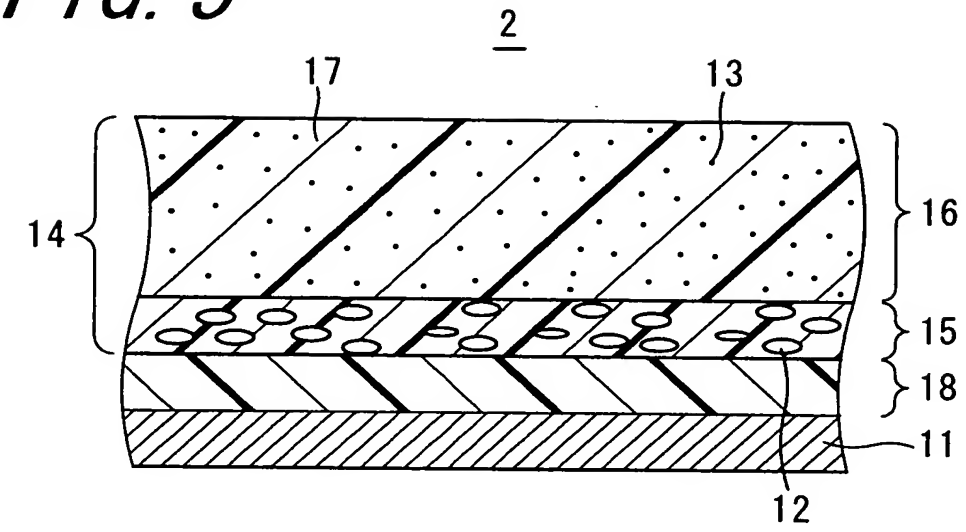


FIG. 6

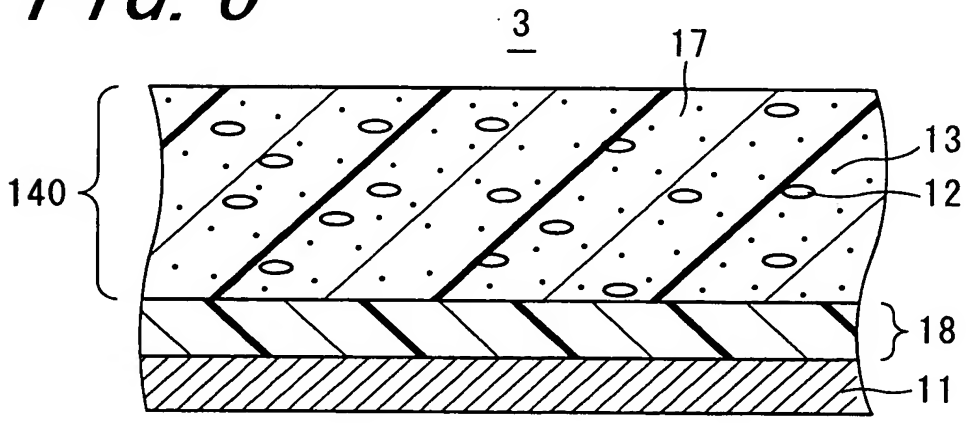


FIG. 7

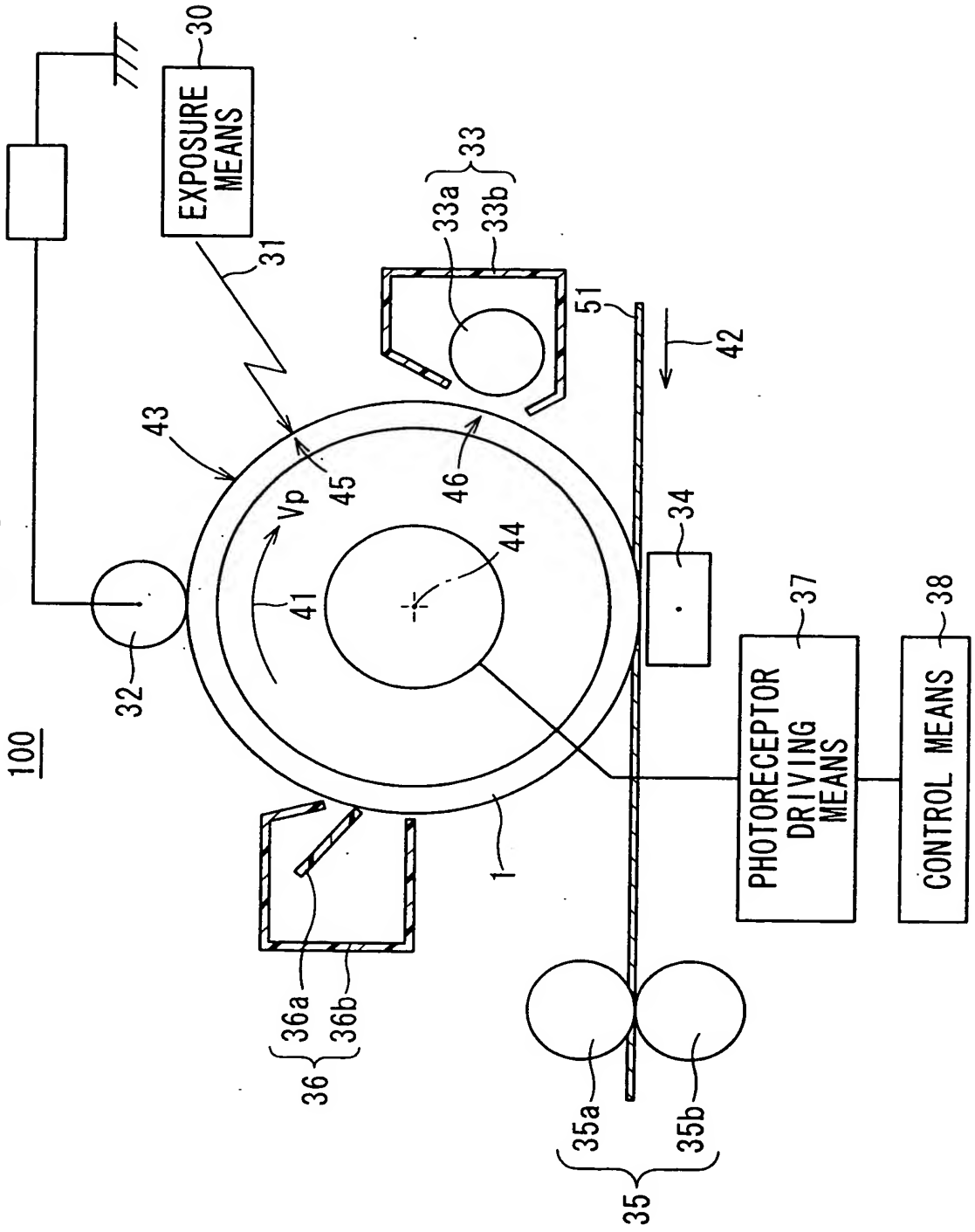

100
EXPOSURE MEANS
30
31
32
33
33a
33b
34
35
35a
35b
36
36a
36b
37
PHOTORECEPTOR DRIVING MEANS
38
CONTROL MEANS
41
42
43
44
45
46
51
Vp
1

FIG.8

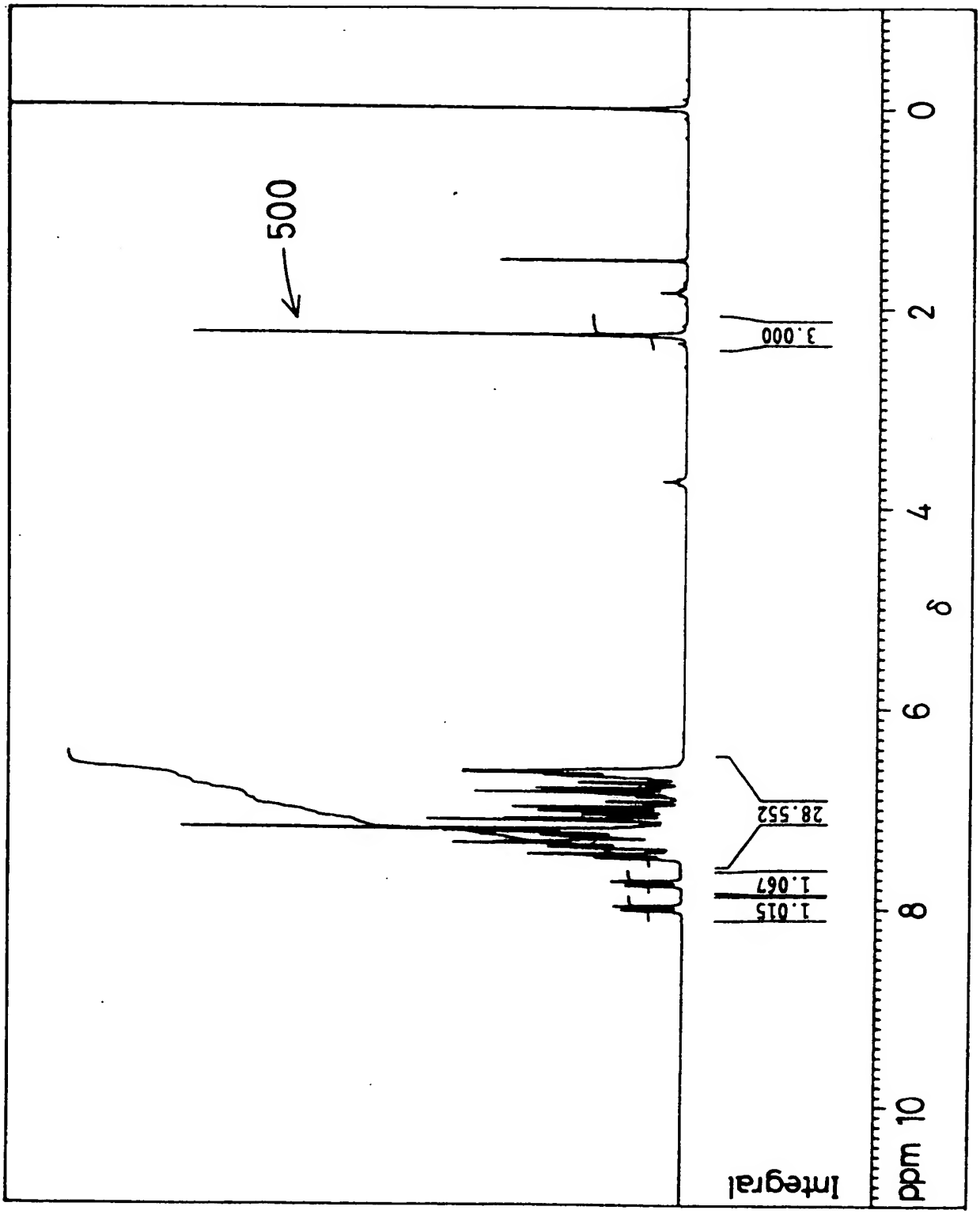


FIG.9

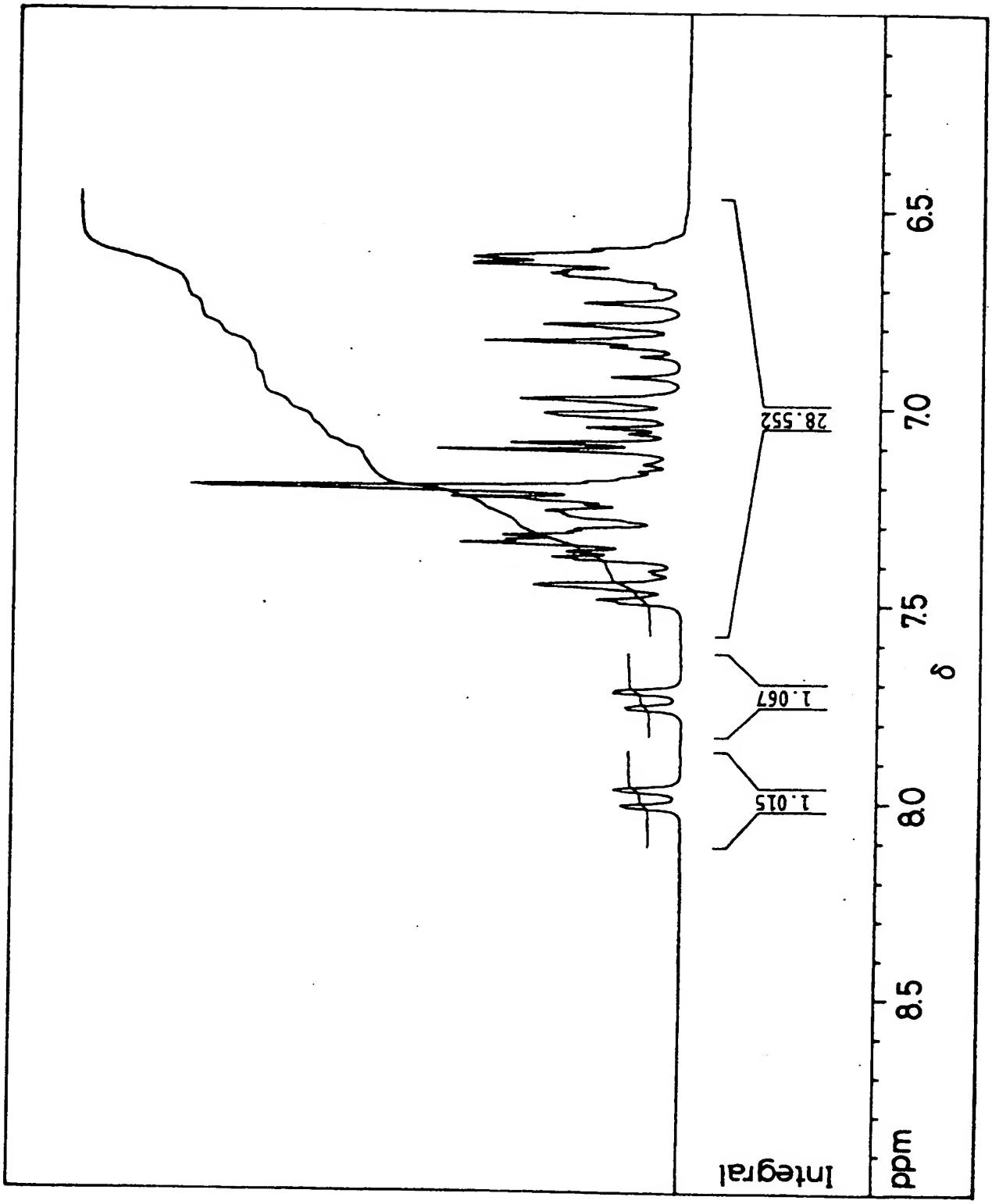


FIG.10

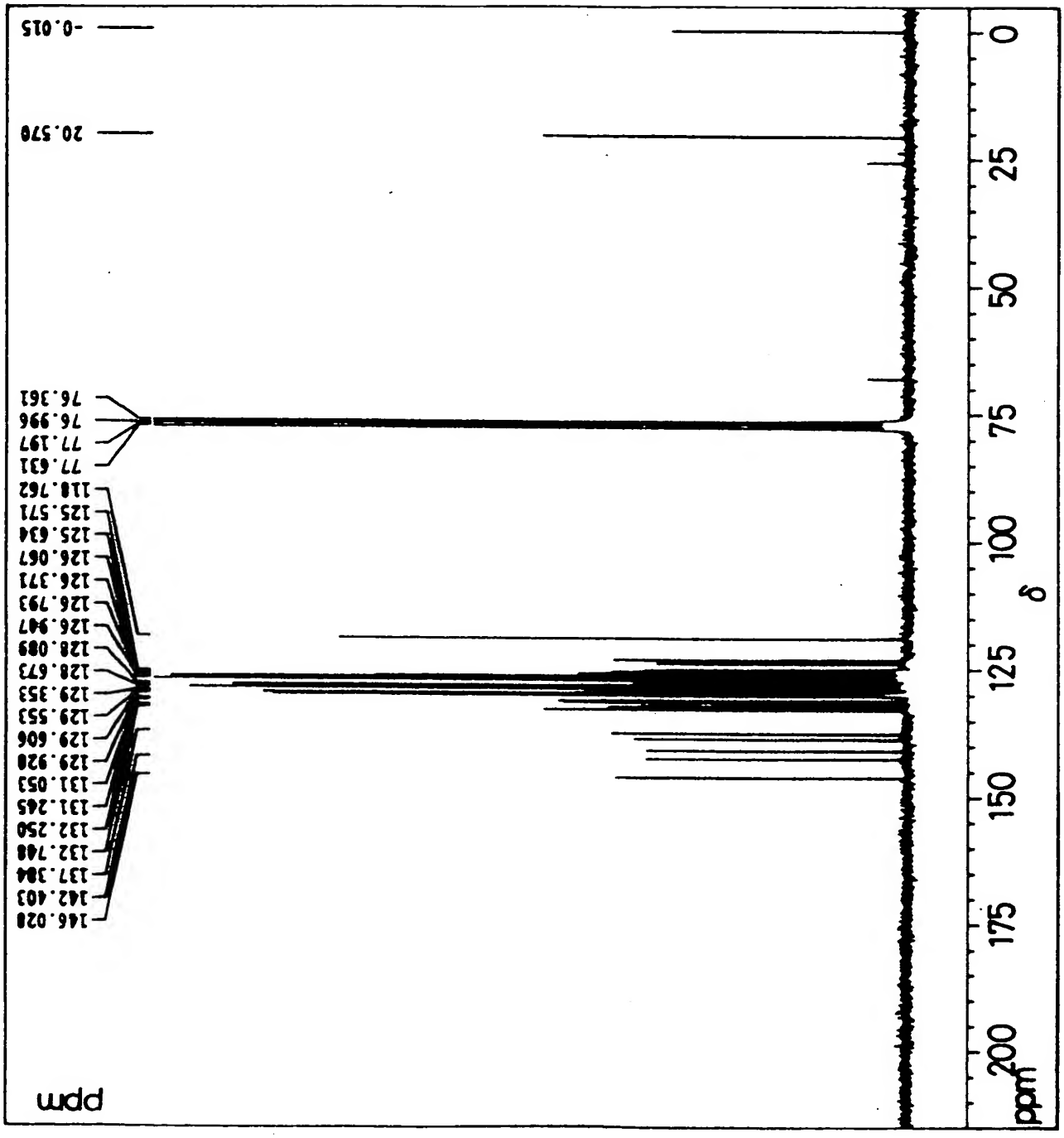

-0.015
20.570
76.361
76.996
77.197
77.631
118.762
125.571
125.634
126.067
126.371
126.793
126.907
128.089
128.673
129.353
129.553
129.606
129.928
131.053
131.265
132.250
132.748
137.384
142.403
146.028
0
25
50
75
100
125
150
175
200
δ
ppm
ppm

FIG.11

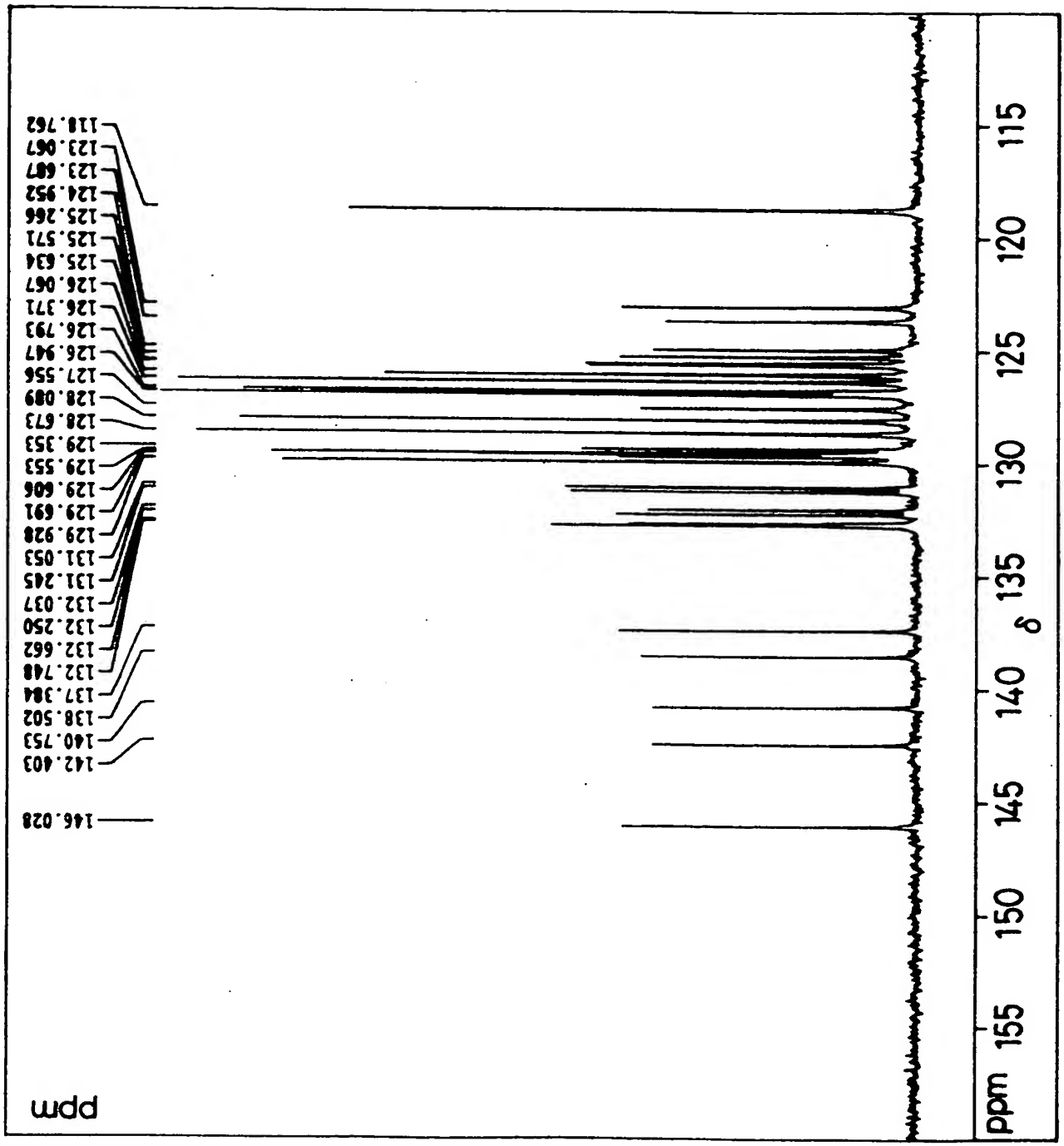

118.762
123.067
123.687
124.952
125.266
125.571
125.634
126.067
126.371
126.793
126.947
127.556
128.089
128.673
129.353
129.553
129.606
129.691
129.928
131.053
131.245
132.037
132.250
132.662
132.748
137.384
138.502
140.753
142.403
146.028
ppm
115
120
125
130
135
140
145
150
155
δ
ppm

FIG.12

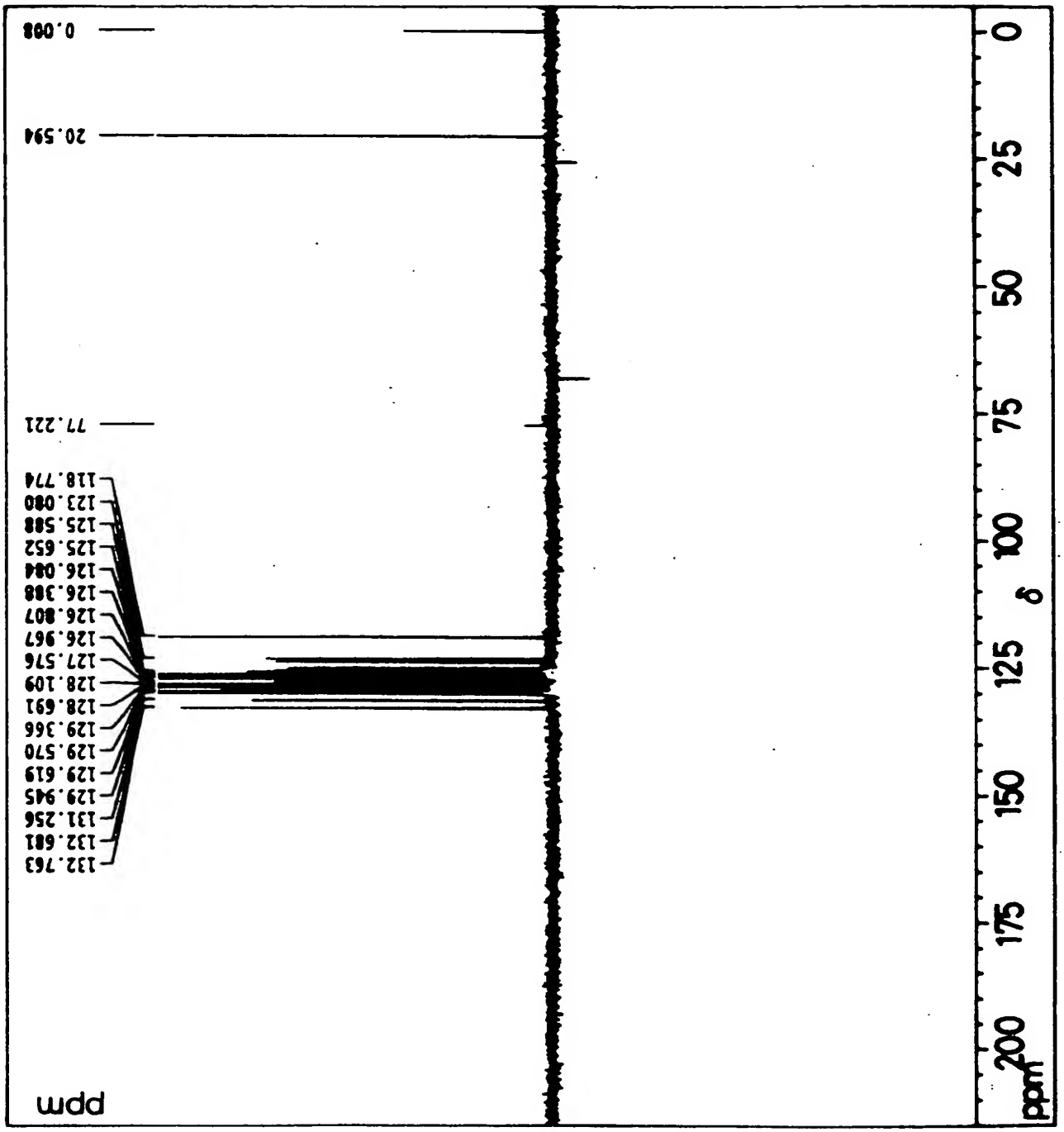

0.088
20.594
77.221
118.774
123.080
125.588
125.652
126.084
126.388
126.807
126.967
127.576
128.109
128.691
129.366
129.570
129.619
129.945
131.256
132.681
132.763
0
25
50
75
100
125
150
175
200
δ
ppm
ppm

FIG.13

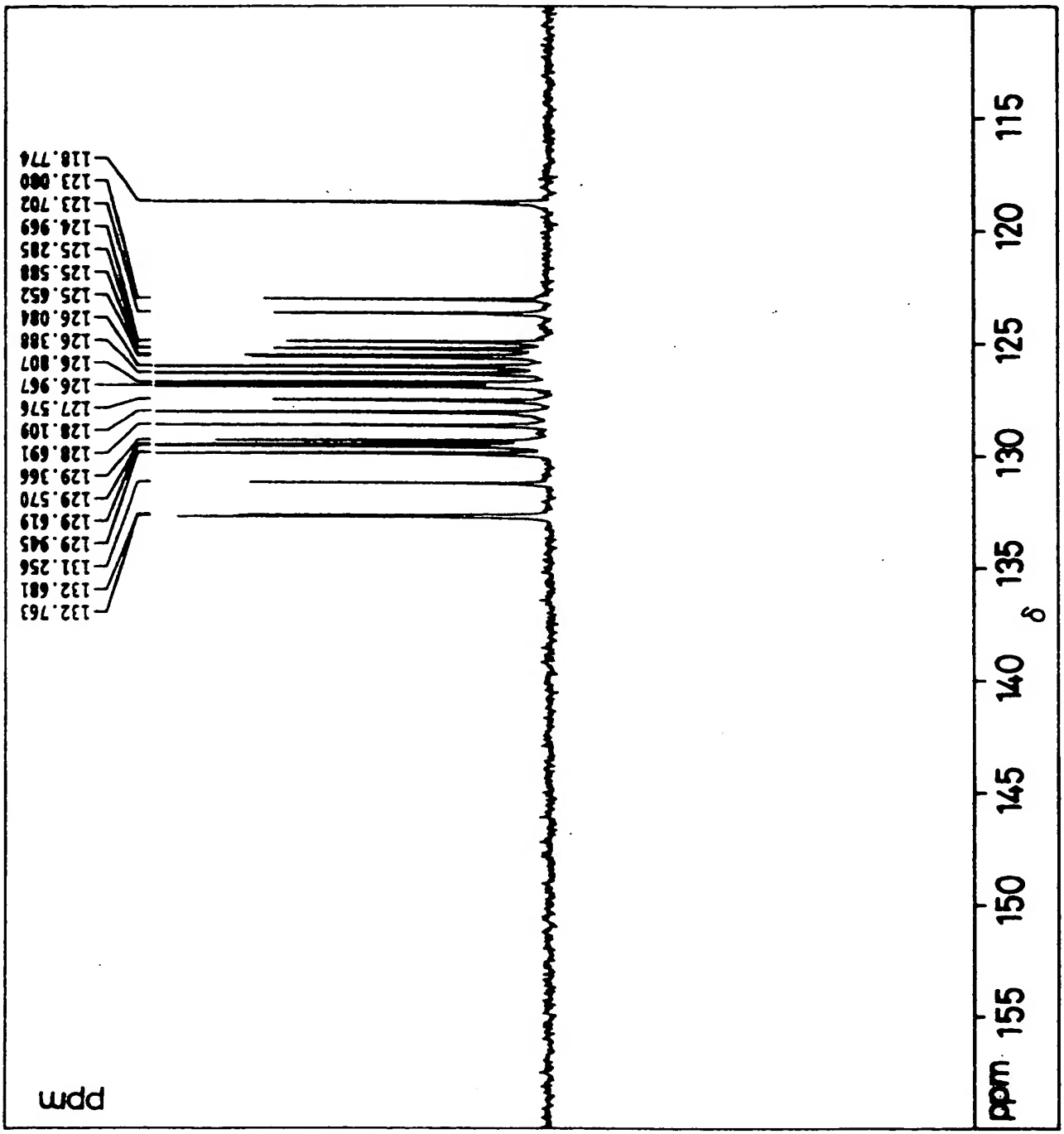

118.774
123.080
123.702
124.969
125.285
125.588
125.652
126.084
126.388
126.807
126.967
127.576
128.109
128.691
129.366
129.570
129.619
129.945
131.256
132.681
132.763
115
120
125
130
135
δ
140
145
150
155
ppm
ppm

FIG.14

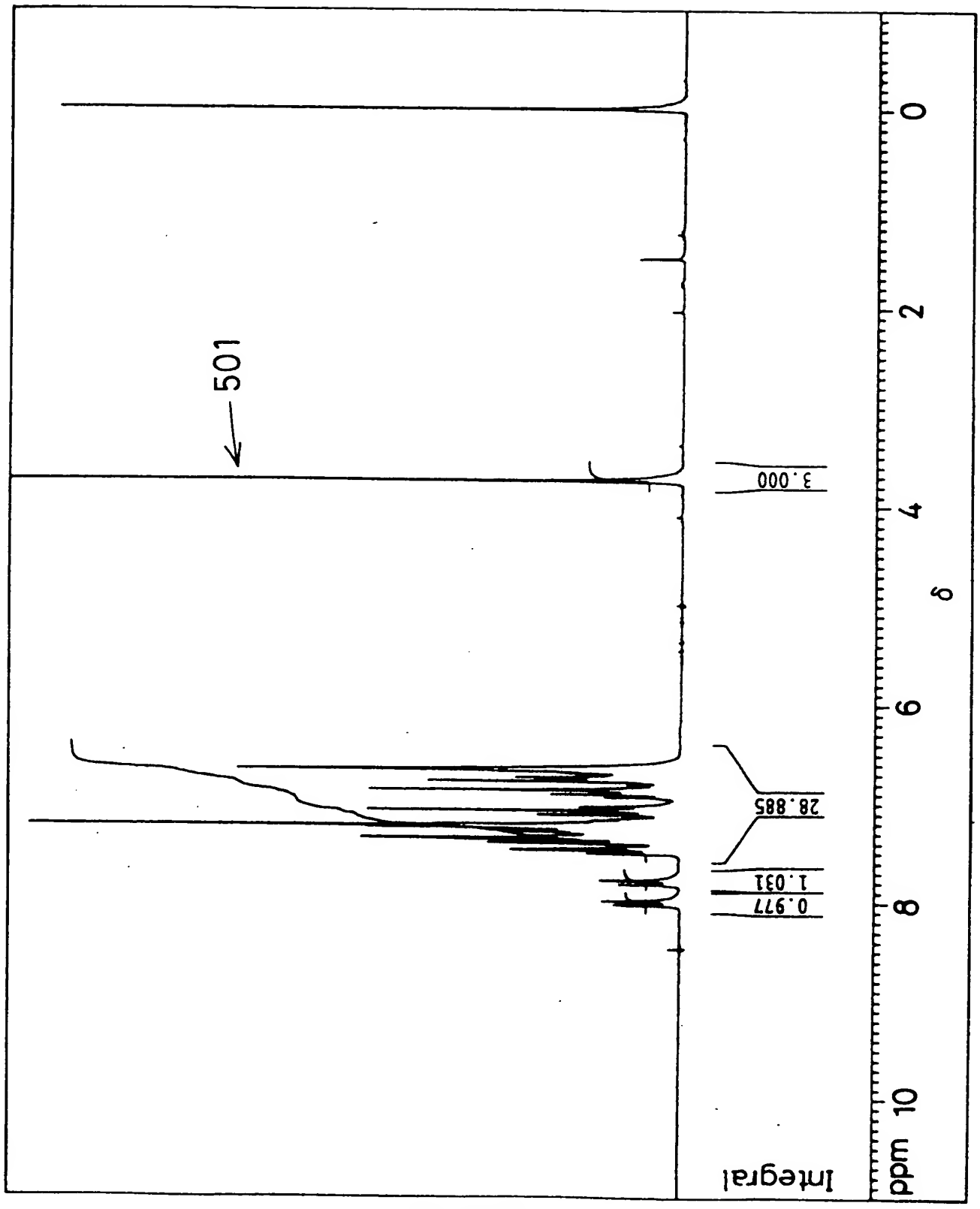


FIG.15

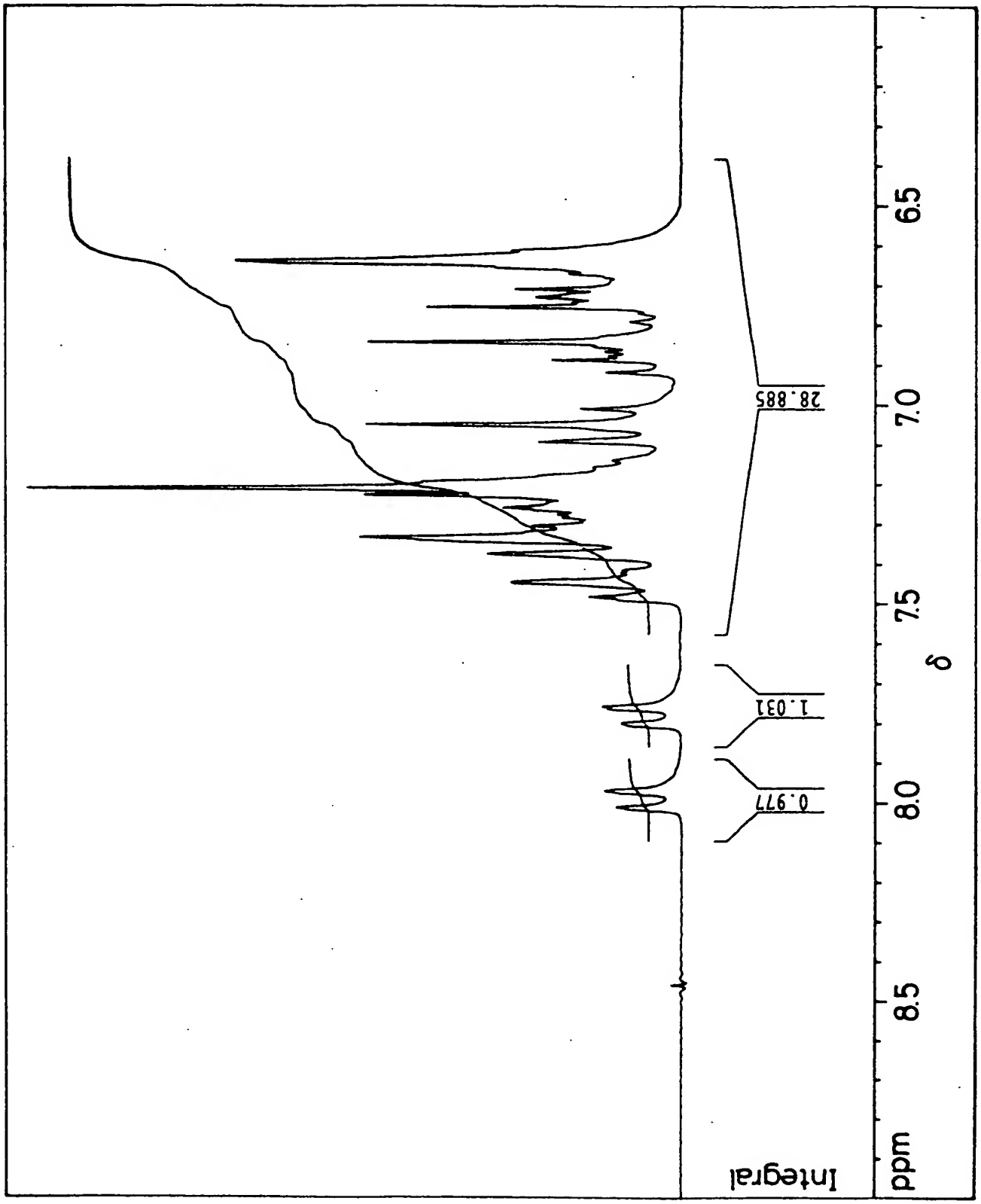


FIG. 16

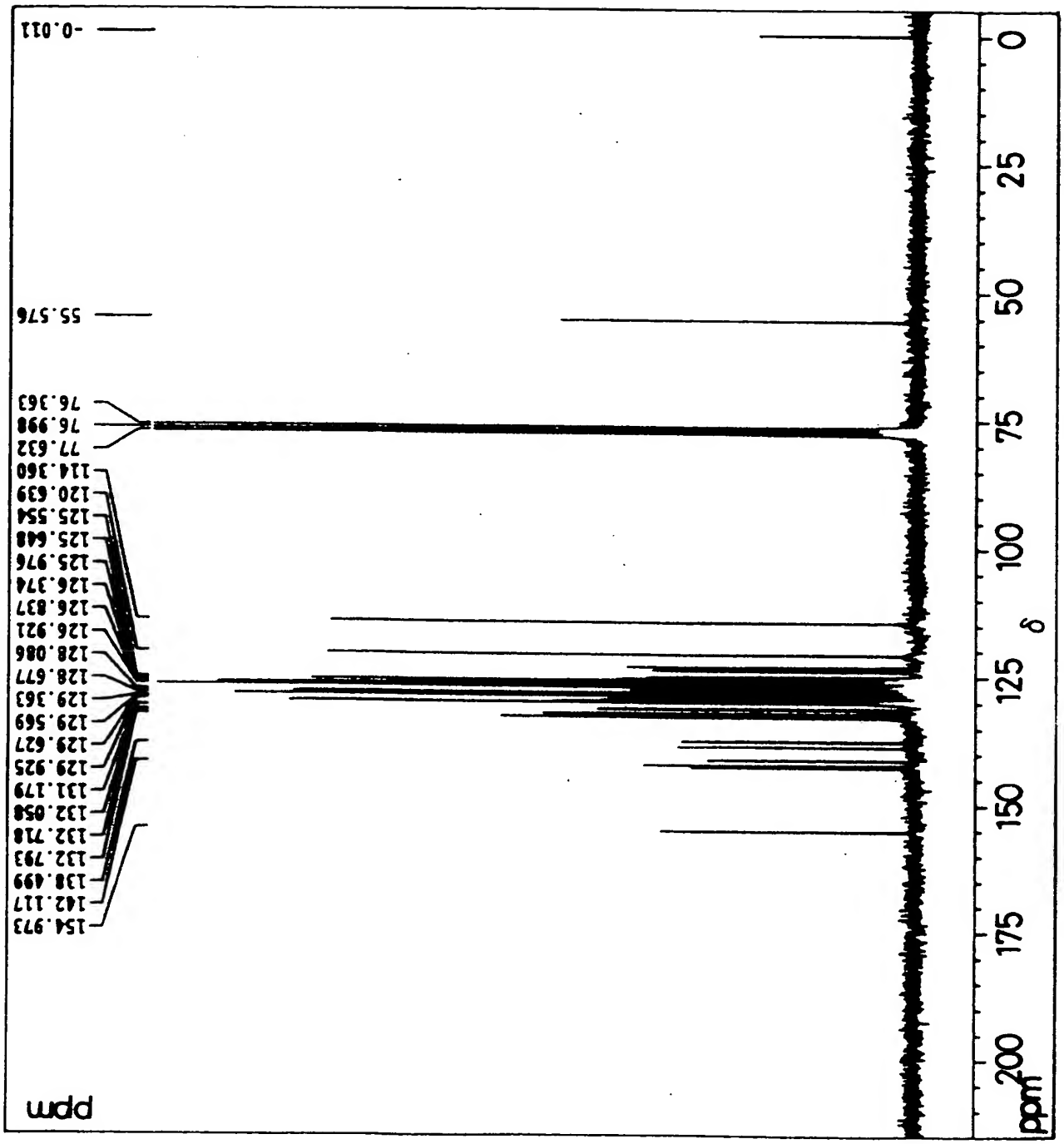

-0.011
55.576
76.363
76.998
77.632
114.360
120.639
125.554
125.648
125.976
126.374
126.837
126.921
128.086
128.677
129.363
129.569
129.627
129.925
131.179
132.058
132.718
132.793
138.499
142.117
154.973
ppm
0
25
50
75
100
125
150
175
200
δ

FIG.17

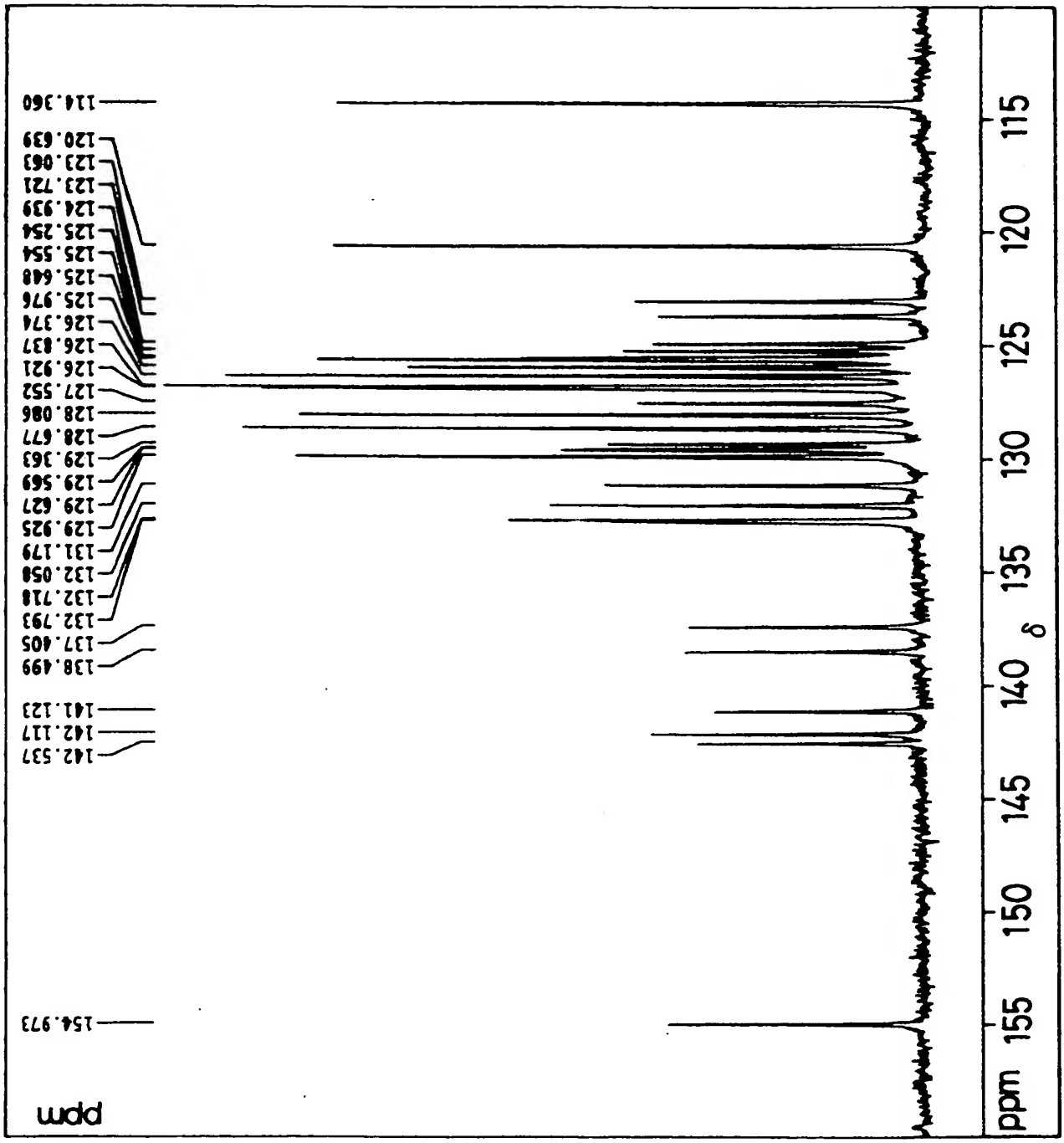

114.360
120.639
123.063
123.721
124.939
125.254
125.554
125.648
125.976
126.374
126.837
126.921
127.552
128.086
128.677
129.363
129.569
129.627
129.925
131.179
132.058
132.718
132.793
137.405
138.499
141.123
142.117
142.537
154.973
ppm
115
120
125
130
135
140
145
150
155
δ
ppm

FIG.18

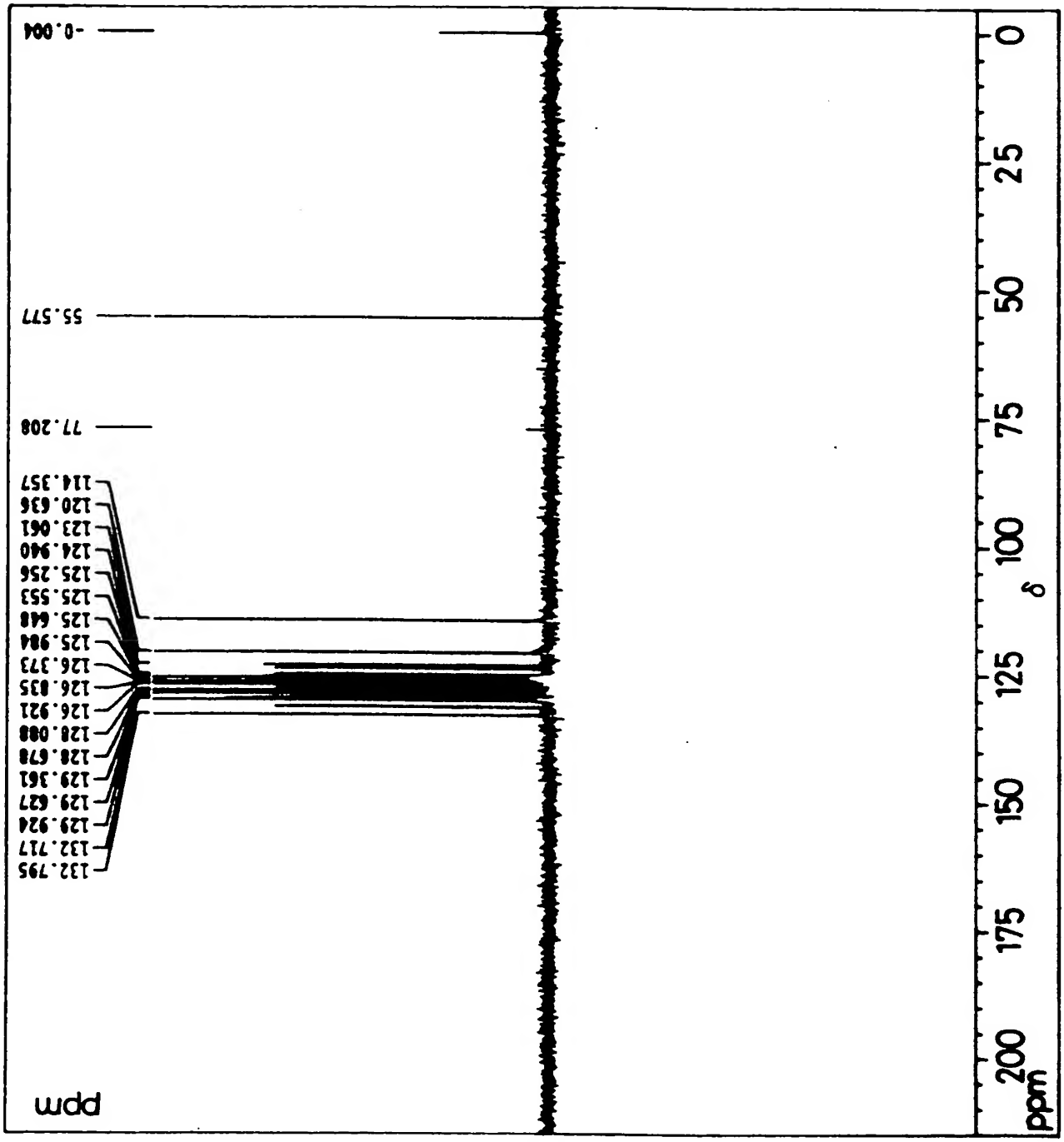
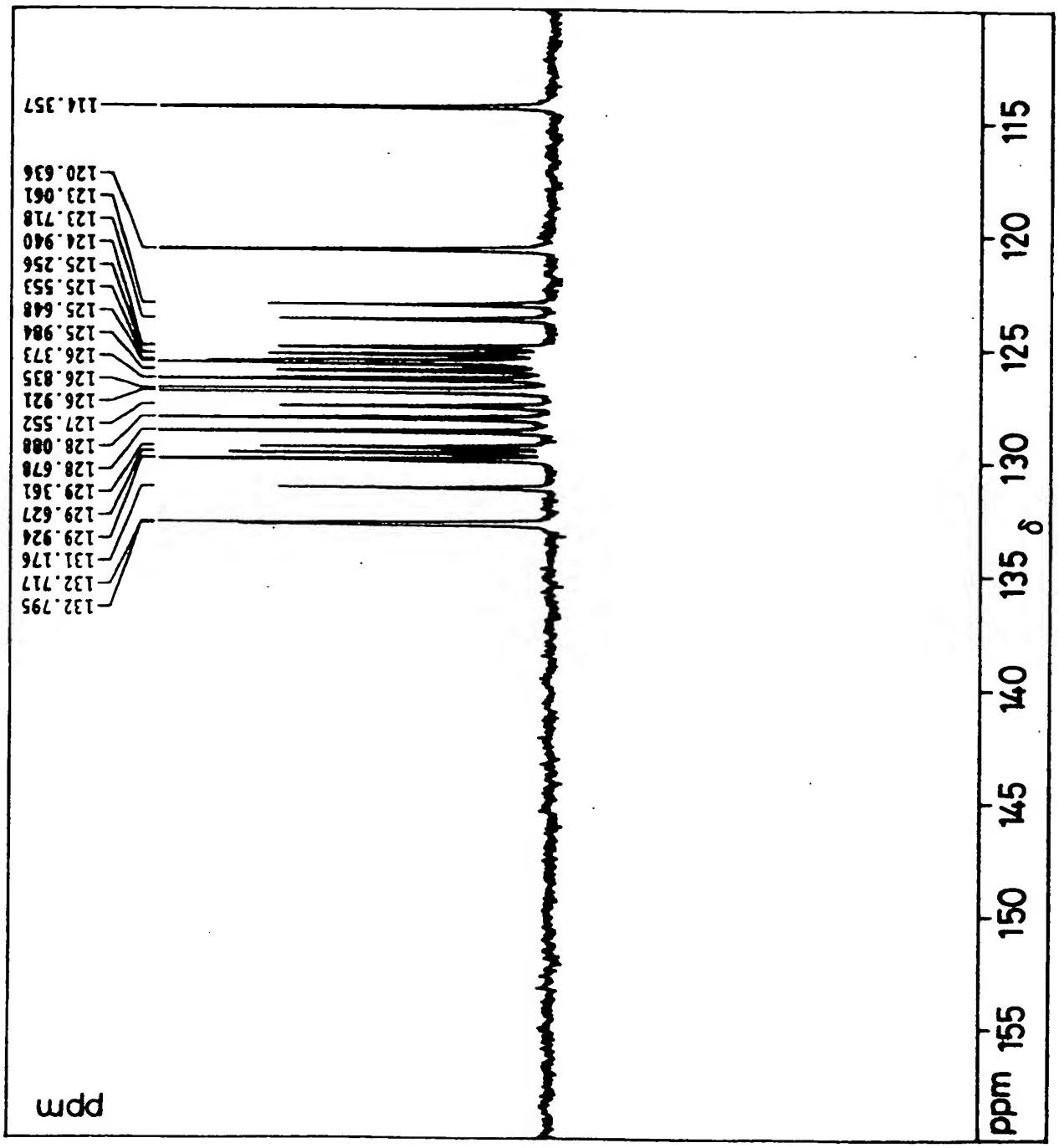

-0.004
55.577
77.208
114.357
120.636
123.061
124.940
125.256
125.553
125.648
125.984
126.373
126.835
126.921
128.088
128.678
129.361
129.627
129.924
132.717
132.795
0
25
50
75
100
125
150
175
200
δ
ppm
ppm

FIG. 19


114.357
120.636
123.061
123.718
124.940
125.256
125.553
125.648
125.984
126.373
126.835
126.921
127.552
128.088
128.678
129.361
129.627
129.924
131.176
132.717
132.795
115
120
125
130
135
140
145
150
155
δ
ppm
ppm